

20030316.qrp v02\_n861.qrl.20030316

Date: Sun, 16 Mar 2003 19:03:13 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2861

QRP-L Digest 2861

Topics covered in this issue include:

- 1) [147683] Re: Transformer Part Number  
by Jerry Lofstead <w3cde@bellsouth.net>
- 2) [147684] Re: Transformer Part Number  
by Pete Burbank <plburbank@earthlink.net>
- 3) [147685] Fw: Transformer Part Number  
by "W8TIF - Karl" <kkanalz@gcecis.com>
- 4) [147686] Re: Headphones  
by "sslyon" <sslyon@megalink.net>
- 5) [147687] Re: Transformer Part Number  
by Elliott Lawrence <edl@pacbell.net>
- 6) [147688] 24 hour clock  
by Pete Burbank <plburbank@earthlink.net>
- 7) [147689] OT: Some computer questions  
by Mark Fields <mark\_ke5my@juno.com>
- 8) [147690] Re: Circuit Simulation Software  
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 9) [147691] TXCO for OMNI V?  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 10) [147692] QRP Tube rig  
by "georgekr5c" <georgekr5c@cablelynx.com>
- 11) [147693] K2/K1 Spinner attachments  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 12) [147694] Re: Headphones  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 13) [147695] Re: K2/K1 Spinner attachments  
by "Mike Yetsko" <myetsko@insydesw.com>
- 14) [147696] Re: Some computer questions  
by "Mike Yetsko" <myetsko@insydesw.com>
- 15) [147697] Logging Software - and the winner is...  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 16) [147698] Re: Headphones  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 17) [147699] Re: K2/K1 Spinner attachments  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 18) [147700] Re: Headphones  
by Herb <hspivey@netdoor.com>
- 19) [147701] Re: K2/K1 Spinner attachments

- by "John" <digi2@earthlink.net>
- 20) [147702] SST Manual- need page 4  
by KE4VM@cs.com
- 21) [147703] Re: Where to buy magnifying goggles  
by George Gingell <k3tks@u1.abs.net>
- 22) [147704] Re: Transformer Part Number  
by "George, W5YR" <w5yr@att.net>
- 23) [147705] Re: Circuit Simulation Software (multiwinding xfmr simulation)  
by Jeff Furman <jfurman@ocs.net>
- 24) [147706] Re: Fwd: Re: Circuit Simulation Software  
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 25) [147707] Audio Tuned Cavity  
by "Tom Pennebaker" <n4rs@netpath-rc.net>
- 26) [147708] Re: Crystal: series or parallel?  
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 27) [147709] Re: Circuit Simulation Software  
by "Harold Smith" <harold.smith1@worldnet.att.net>
- 28) [147710] Re: Terminating an Antenna  
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 29) [147711] Re: Logging Software - and the winner is...  
by "Don Jackson (AE5K)" <don@azark.com>
- 30) [147712] NorCal Nor'Easter Kit For Sale  
by "Harvey Mitchell" <hmitchell13@houston.rr.com>
- 31) [147713] Re: Intentional Interference  
by KD5NWA <KD5NWA@cbayona.com>
- 32) [147714] Re: Audio Tuned Cavity  
by "Paul M" <mooney@cytanet.com.cy>
- 33) [147715] Teams Status with the final hunt this Thursday....  
by Bruce Rattray <ratttray@gpfn.sk.ca>
- 34) [147716] FS: MFJ 9020  
by Fghester@aol.com
- 35) [147717] Re: Circuit Simulation Software  
by KD5NWA <KD5NWA@cbayona.com>
- 36) [147718] Re: Circuit Simulation Software  
by "Leon Heller" <leon\_heller@hotmail.com>
- 37) [147719] Re: ArkieCon  
by "George, W5YR" <w5yr@att.net>
- 38) [147720] Low Noise Lossless Feedback Active Mixers  
by "Chris Trask" <chistrask@earthlink.net>
- 39) [147721] Re: Fwd: Re: Circuit Simulation Software  
by Ed Tanton <n4xy@earthlink.net>
- 40) [147722] Fox Hunt Teams Clean Sweeps...  
by Bruce Rattray <ratttray@gpfn.sk.ca>
- 41) [147723] Looking for  
by "wd7y@pyramid.net" <wd7y@pyramid.net>
- 42) [147724] fox hunt winners...  
by Bruce Rattray <ratttray@gpfn.sk.ca>
- 43) [147725] Logging software

by "Brian Murrey" <brian@iquest.net>  
44) [147726] Re: Audio Tuned Cavity  
by "Tom Pennebaker" <n4rs@netpath-rc.net>  
45) [147727] Ungar heating element  
by "Gene Sailsbury" <gsailsbury@mobil1.net>  
46) [147728] Looking for Johnson Matchbox  
by "Michael Melland" <w9wis@charter.net>  
47) [147729] FS: MFJ 9040  
by Steve Holloway <wsholloway1@yahoo.com>

-----  
Date: Sat, 15 Mar 2003 19:05:50 -0500  
From: Jerry Lofstead <w3cde@bellsouth.net>  
To: edl@pacbell.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [147683] Re: Transformer Part Number  
Message-ID: <3E73BFDE.2D7DE924@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Elliott,

Olson Radio sold them MANY MOONS ago! 8-). I would guess  
about 30 years ago...

Jerry  
W3CDE

Elliott Lawrence wrote:

>  
> I have an old, old audio transformer marked as Caletro D1-724. Looking  
> to find out the specs on it, 1:1 or etc. Did a google search with no  
> success. Does anyone have an info or suggestions?  
>  
> 73  
> Elliott WA6TLA

-----  
Date: Sat, 15 Mar 2003 19:06:59 -0500  
From: Pete Burbank <plburbank@earthlink.net>  
To: edl@pacbell.net,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147684] Re: Transformer Part Number

Message-ID: <5.2.0.9.0.20030315190136.00a3e9f0@Earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:21 PM 3/15/2003, Elliott Lawrence wrote:

>I have an old, old audio transformer marked as Caletro D1-724. Looking  
>to find out the specs on it, 1:1 or etc. Did a google search with no  
>success. Does anyone have an info or suggestions?

>

>73

>Elliott WA6TLA

Elliot, if you have an AADE L/C meter you could check the impedance.(  
Really a great test instrument).  
Pete NV4V

-----  
Date: Sat, 15 Mar 2003 18:14:30 -0600  
From: "W8TIF - Karl" <kkanalz@gcecis.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147685] Fw: Transformer Part Number  
Message-ID: <053d01c2eb51\$03fa2a40\$791a0ed0@HamShack>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Also, the part name is "Calectro".....Check google again with the corrected  
spelling and you might find something...

KK

----- Original Message -----

From: "Jerry Lofstead" <w3cde@bellsouth.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Saturday, March 15, 2003 6:05 PM  
Subject: Re: Transformer Part Number

>

> Elliott,

>

> Olson Radio sold them MANY MOONS ago! 8-). I would guess  
> about 30 years ago...

>

> Jerry

> W3CDE  
>  
> Elliott Lawrence wrote:  
> >  
> > I have an old, old audio transformer marked as Caletro D1-724. Looking  
> > to find out the specs on it, 1:1 or etc. Did a google search with no  
> > success. Does anyone have an info or suggestions?  
> >  
> > 73  
> > Elliott WA6TLA

-----  
Date: Sat, 15 Mar 2003 19:28:28 -0500  
From: "sslyon" <sslyon@megalink.net>  
To: "chat qrp" <qrp-l@lehigh.edu>  
Subject: [147686] Re: Headphones  
Message-ID: <000501c2eb52\$f7b253a0\$0ac8e742@megalink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I've recently bought two pair of R/S Pro-35 phones... one for me, one for late  
nite TV. On sale for \$14.95, usually \$34.95 or so. Excellent performance...  
better than anything I've tried in past couple of years, for both radio and  
stereo applications.

73  
aa1my

-----  
Date: Sat, 15 Mar 2003 16:47:34 -0800  
From: Elliott Lawrence <edl@pacbell.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [147687] Re: Transformer Part Number  
Message-ID: <3E73C9A5.8A385153@pacbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

Thanks for all of the suggestions.

73 Elliott WA6TLA

Elliott Lawrence wrote:

> I have an old, old audio transformer marked as Caletro D1-724. Looking  
> to find out the specs on it, 1:1 or etc. Did a google search with no  
> success. Does anyone have an info or suggestions?  
>  
> 73  
> Elliott WA6TLA

-----  
Date: Sat, 15 Mar 2003 19:41:59 -0500  
From: Pete Burbank <plburbank@earthlink.net>  
To: qrp-l@lehigh.edu  
Subject: [147688] 24 hour clock  
Message-ID: <5.2.0.9.0.20030315193227.00a41460@Earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I used the wrong spelling regarding a source of clock movements for the UTC impaired.

It's about 10 rasbucknicks including dial from 1-800-Klockit. Accurate quartz movement and runs for a few years on an AA battery.

73

Pete

NV4V

Ky

-----  
Date: Sat, 15 Mar 2003 19:01:52 -0600  
From: Mark Fields <mark\_ke5my@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [147689] OT: Some computer questions  
Message-ID: <20030315.190715.-204063.0.mark\_ke5my@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi, everyone:

Could someone enlighten me as to what the following terms mean? (They were listed in

my computer's BIOS settings.)

Doze mode  
Standby mode  
Suspend mode

I know that those concern power management for my computer, but I'm not sure what the differences between them are.

Also, what is PS/2 mouse controller function? That was another BIOS setting that puzzled me.

I tried looking through all my computer books, but found very little information on any of them.

TIA!

73, Mark, KE5MY

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Date: Sat, 15 Mar 2003 19:48:40 -0600  
From: "Nick Kennedy" <nkennedy@tcainternet.com>  
To: <jokortge@prodigy.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147690] Re: Circuit Simulation Software  
Message-ID: <004801c2eb5e\$2b916fc0\$02000000a@coxinternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I think monitoring eBay or similar might yield used or closeout older versions of EWB, such as 4.1 or thereabouts.

I think EWB is great for ease of use and visual tools. Possibly not as good as "real" SPICE programs when it gets down to the nitty-gritty of tough simulations, though. (I think EWB uses its own methods rather than being Spice based.)

Some older DOS based Spice based programs might be good and also cheap (or less) too. I'm currently fixing up a good DOS computer just for things like the old IS-SPICE package I have, RUFZ, TR-Log and other great old DOS apps. (My Windows PC doesn't do DOS worth a hoot.) Plus I built an I/O card for an

ISA slot some time back that I could use to interface with some of this DDS and PLL stuff everyone's playing with these days.

Anyway, I digress. We're discussing where to buy full featured Spice programs cheap, but I think many Spice promoters like Chuck and others have stated that the free release or trial version stuff out there will do most anything we hams would want. I just can't imagine trying to simulate a whole receiver or transmitter at once. A piece at a time results in much less loss of sanity.

I have MultiSim at work. It's the current offering of the EWB folks. But boy, they took a huge jump in price when they changed the product's name. They had offerings of EWB for as little as \$99 a few years ago. No more.

With MultiSim, I recently figured how to do three winding transformers and other cool transformer stuff, by importing coupled inductors via a Spice model. That really expanded what I could look at in terms of transformers, because the built-in models are really limited. May not be possible in older EWB releases though.

72 & good simulating--

Nick, WA5BDU  
in Arkansas

-----  
Date: Sat, 15 Mar 2003 20:20:45 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "Ten-Tec Relector" <tentec@contesting.com>,  
"qrp-l reflector" <qrp-l@lehigh.edu>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [147691] TXCO for OMNI V?  
Message-ID: <412003301622045724@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Friends:

Is a TXCO available for a Ten Tec OMNI V? All this talk about one for the OMNI VI+ has whetted my interest! Makes me think the V might also benefit from such an upgrade. Thanks in advance for any input.

73,  
--Doc/K0EVZ



-----  
Date: Sat, 15 Mar 2003 20:32:19 -0600  
From: "georgekr5c" <georgekr5c@cablelynx.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [147692] QRP Tube rig  
Message-ID: <004101c2eb64\$45820100\$ad08cc18@lee>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Here are the three URLs sent along to my question on the QRP tube rig I asked about.

<http://www.nsknet.or.jp/~ja9mat/5EA8TX.htm>  
<http://www.io.com/~n5fc/>  
<http://www.glowbugkits.com>

The one I was particularly interested in is the JA9MAT offering.

All have good information and to those who sent me replies, again many thanks for your help.

Hope all will enjoy this phase of QRP.

72, George KR5C

-----  
Date: Sat, 15 Mar 2003 20:38:22 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "qrp-l reflector" <qrp-l@lehigh.edu>,  
      "Elecraft " <elecraft@mailman.qth.net>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [147693] K2/K1 Spinner attachments  
Message-ID: <412003301623822223@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Gang:

Every now and then a little product comes along, which makes operating so much easier. In this case I am talking about the tiny "K2/K1 Spinners" from Robert VE3RPF. Mine just came and they are already installed and making a BIG difference.

You just stick them onto the main tuning knobs of your rigs. I believe that Robert makes them himself. Highly recommended. They are a bit more effective with the larger tuning knob on the K2. I plan on ordering several more for the future.

Contact Robert VE3RPF at robert931@sympatico.ca to order.

GL and best 73,  
--Doc/K0EVZ

-----  
Date: Sat, 15 Mar 2003 20:44:43 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "sslyon" <sslyon@megalink.net>,  
"qrp-l reflector" <qrp-l@lehigh.edu>,  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [147694] Re: Headphones  
Message-ID: <412003301624443751@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Seab and Gang:

I use these same headphones, and they are terrific. Also good for music reproduction. I like them full-range, and let the rig itself take care of bandwidth. They are a good value IMHO when they go on sale at about \$15.00. BTW, they have higher output than many headphones, and include an inline volume control.

73,  
--Doc/K0EVZ

> [Original Message]

> From: sslyon <sslyon@megalink.net>  
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
> Date: 3/15/2003 6:28:28 PM  
> Subject: Re: Headphones  
>  
> I've recently bought two pair of R/S Pro-35 phones... one for me, one for  
late  
> nite TV. On sale for \$14.95, usually \$34.95 or so. Excellent  
performance...  
> better than anything I've tried in past couple of years, for both radio  
and  
> stereo applications.  
> 73  
> aa1my  
>  
>

-----  
Date: Sat, 15 Mar 2003 21:55:01 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <dock0evz@earthlink.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147695] Re: K2/K1 Spinner attachments  
Message-ID: <005c01c2eb67\$7226cee0\$0200a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Gang:  
>  
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> effective with the larger tuning knob on the K2. I plan on ordering  
> several more for the future.  
>  
> Contact Robert VE3RPF at robert931@sympatico.ca to order.  
>  
> GL and best 73,  
> --Doc/K0EVZ

Any where we can see one of these things on the web?

Mike

-----  
Date: Sat, 15 Mar 2003 21:56:40 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <mark\_ke5my@juno.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147696] Re: Some computer questions  
Message-ID: <005f01c2eb67\$bba66bc0\$0200a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Hi, everyone:  
> Could someone enlighten me as to what the  
> following terms mean? (They were listed in  
> my computer's BIOS settings.)  
>  
> Doze mode  
> Standby mode  
> Suspend mode  
>  
> I know that those concern power management  
> for my computer, but I'm not sure what the  
> differences between them are.  
> Also, what is PS/2 mouse controller  
> function? That was another BIOS setting that  
> puzzled me.  
> I tried looking through all my computer  
> books, but found very little information on  
> any of them.  
> TIA!  
>  
73, Mark, KE5MY

Different manufacturers use different terms but here's what at least a few of the modes are...

ThrottleClock - Some hardware can actually change clock speed 'on the fly' to save power.

5V Suspend - This is usually a complete stop clock but the RAM is still going and being refreshed. To restart, just restart the clock.

0V Suspend - This actually powers everything off. That means that EVERYTHING in the machine needs to be saved to disk. Obviously the memory contents, but also the state of every single register and hardware 'configurable' in the machine. (This can be tricky, as some states cannot just be 'put back', but must be sequenced.)

Then, besides the above 'global' states, there are other 'area specific' states, where pieces of the machine can be turned off selectively, and may be 'tied in' with the other states. Things like backlit displays and such.

Finally, some pieces of a machine may have their OWN power management. Hard disk, for instance, can have their own timeouts for spinning down.

Mike

-----

Date: Sat, 15 Mar 2003 19:00:22 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Elecrafft Mailing List" <elecraft@mailman.qth.net>  
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147697] Logging Software - and the winner is...  
Message-ID: <001101c2eb68\$305506c0\$0b15f4d8@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang,

Thanks for all of the recommendations for logging software! I spent all day yesterday and half of today downloading and evaluating them to find one that fit what I needed. Some of the programs are very sophisticated, but some what cumbersome to use, and not really what I was looking for. Also, a lot of them were rather rigid in what you can display on the log page and don't allow you to configure your own page. The program that I

picked is N3FJP's ACLog found at: <http://www.n3fjp.com/>. It's very simple to use and has 4 columns that you can label yourself and track different things with. I found it very easy to set up. You can even define exactly how the screen looks and what you want to enter into the log as you make a contact. I thought it was very well thought out. I'll be sending my order for it tonight (\$15). I may end up getting his entire suite of programs though for \$49 which I think is a great deal. BTW second place was Logger. Looks nice, and may be a bit more flexible when the 32 bit version comes out. Thanks again for all of the input guys!

73's Trev KG6CYN  
<http://home.earthlink.net/~kg6cyn>  
<http://www.qsl.net/kg6cyn>

-----  
Date: Sat, 15 Mar 2003 19:03:37 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: <hspivey@netdoor.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147698] Re: Headphones  
Message-ID: <001f01c2eb68\$a4310f80\$0b15f4d8@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hey Herb,

I use the Sony MDR-V6's here in the shack. They are with out a doubt the best headphones that I've ever used. Very comfortable for long term wear and sound fantastic! They're used a lot in the studios out here. Not cheap though! I think that I paid around \$75.00 for them, but IMHO you get what you pay for. Take care...

73's Trev KG6CYN  
<http://home.earthlink.net/~kg6cyn>  
<http://www.qsl.net/kg6cyn>

----- Original Message -----  
From: Herb <hspivey@netdoor.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Saturday, March 15, 2003 3:21 PM  
Subject: Headphones

> I am looking for some new headphones. My old Kenwood phones are worn out. I  
> have seen some reference to the Sony MDR-7506. Has anyone used these  
> phones. Can anyone recommend any others. These are well rated on eHam  
> reviews. I will use them with the K2.  
>  
> 73  
>  
> Herb - K5AIC  
>  
>

-----  
Date: Sat, 15 Mar 2003 21:6:17 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "Mike Yetsko" <myetsko@insydesw.com>,  
"qrp-l reflector" <qrp-l@lehigh.edu>,  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [147699] Re: K2/K1 Spinner attachments  
Message-ID: <41200330163617741@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Mike:

I never saw them on the web, but just heard about 'em. The little doodad is about the size of the finger hole in--for example--a Ten Tec rig. I am looking at an OMNI V and an ARGO 515, and the finger holes are the same size as Robert's little stick on attachments. Of course, these stick out a bit, but IMHO they make the rigs actually look better than the standard Elecraft knob. YMMV.

73,  
--Doc/K0EVZ

> [Original Message]  
> From: Mike Yetsko <myetsko@insydesw.com>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>;  
<dock0evz@earthlink.net>  
> Date: 3/15/2003 8:55:09 PM  
> Subject: Re: K2/K1 Spinner attachments  
>  
> > Gang:  
> >  
> > Every now and then a little product comes along, which makes operating

> so  
> > much easier. In this case I am talking about the tiny "K2/K1 Spinners"  
> > from Robert VE3RPF. Mine just came and they are already installed and  
> > making a BIG difference.  
> >  
> > You just stick them onto the main tuning knobs of your rigs. I believe  
> > that Robert makes them himself. Highly recommended. They are a bit  
> more  
> > effective with the larger tuning knob on the K2. I plan on ordering  
> > several more for the future.  
> >  
> > Contact Robert VE3RPF at robert931@sympatico.ca to order.  
> >  
> > GL and best 73,  
> > --Doc/K0EVZ  
>  
> Any where we can see one of these things on the web?  
>  
> Mike

-----  
Date: Sat, 15 Mar 2003 21:45:02 -0600  
From: Herb <hspivey@netdoor.com>  
To: "Trevor Jacobs" <kg6cyn@earthlink.net>  
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147700] Re: Headphones  
Message-ID: <5.2.0.9.0.20030315214246.00a12110@mail.netdoor.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Thanks to each of you who answered my question. I think I am going to try the MDR-V6. I use headphones 95% of the time and need some that are comfortable.

73  
Herb-K5AIC

At 07:03 PM 3/15/03 -0800, Trevor Jacobs wrote:  
>Hey Herb,



>  
>I use the Sony MDR-V6's here in the shack. They are with out a doubt the  
>best headphones that I've ever used. Very comfortable for long term wear  
>and sound fantastic! They're used a lot in the studios out here. Not  
>cheap though! I think that I paid around \$75.00 for them, but IMHO you  
>get what you pay for. Take care...

>  
>73's Trev KG6CYN  
><http://home.earthlink.net/~kg6cyn>  
><http://www.qsl.net/kg6cyn>

>----- Original Message -----

>From: Herb <[hspivey@netdoor.com](mailto:hspivey@netdoor.com)>  
>To: Low Power Amateur Radio Discussion <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
>Sent: Saturday, March 15, 2003 3:21 PM  
>Subject: Headphones

>  
>  
> > I am looking for some new headphones. My old Kenwood phones are worn  
>out. I  
> > have seen some reference to the Sony MDR-7506. Has anyone used these  
> > phones. Can anyone recommend any others. These are well rated on eHam  
> > reviews. I will use them with the K2.  
> >  
> > 73  
> >  
> > Herb - K5AIC  
> >  
> >

-----  
Date: Sat, 15 Mar 2003 21:03:05 -0700  
From: "John" <[digi2@earthlink.net](mailto:digi2@earthlink.net)>  
To: <[dock0evz@earthlink.net](mailto:dock0evz@earthlink.net)>,  
"Low Power Amateur Radio Discussion" <[qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)>  
Subject: [147701] Re: K2/K1 Spinner attachments  
Message-ID: <[000601c2eb70\\$f35fc6c0\\$6501a8c0@phoenix.speedchoice.com](mailto:000601c2eb70$f35fc6c0$6501a8c0@phoenix.speedchoice.com)>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Are these spinner attachments made from plastic bolt covers?

John K7SVV

----- Original Message -----

From: "Doc K0EVZ" <dock0evz@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Saturday, March 15, 2003 8:00 PM

Subject: Re: K2/K1 Spinner attachments

> Mike:

>

> I never saw them on the web, but just heard about 'em. The little doodad  
> is about the size of the finger hole in--for example--a Ten Tec rig. I am  
> looking at an OMNI V and an ARGO 515, and the finger holes are the same  
> size as Robert's little stick on attachments. Of course, these stick out  
> a

> bit, but IMHO they make the rigs actually look better than the standard  
> Elecraft knob. YMMV.

>

> 73,

> --Doc/K0EVZ

>

> > [Original Message]

> > From: Mike Yetsko <myetsko@insydesw.com>

> > To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>;

> > <dock0evz@earthlink.net>

> > Date: 3/15/2003 8:55:09 PM

> > Subject: Re: K2/K1 Spinner attachments

> >

> > > Gang:

> > >

> > > Every now and then a little product comes along, which makes operating  
> > so

> > > much easier. In this case I am talking about the tiny "K2/K1  
Spinners"

> > > from Robert VE3RPF. Mine just came and they are already installed and  
> > > making a BIG difference.

> > >

> > > You just stick them onto the main tuning knobs of your rigs. I  
believe

> > > that Robert makes them himself. Highly recommended. They are a bit  
> > more

> > > effective with the larger tuning knob on the K2. I plan on ordering  
> > > several more for the future.

> > >

> > > Contact Robert VE3RPF at robert931@sympatico.ca to order.

> > >

> > > GL and best 73,

> > > --Doc/K0EVZ  
> >  
> > Any where we can see one of these things on the web?  
> >  
> > Mike  
>  
>  
>  
>  
>  
>  
>  
>  
>

-----  
Date: Sun, 16 Mar 2003 00:02:23 EST  
From: KE4VM@cs.com  
To: qrp-1@lehigh.edu  
Subject: [147702] SST Manual- need page 4  
Message-ID: <130.1cada370.2ba55f5f@cs.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

My page 4 is unreadable. Anybody got it?  
Thanks,  
Richard

-----  
Date: Sun, 16 Mar 2003 01:19:40 -0500 (EST)  
From: George Gingell <k3tks@u1.abs.net>  
To: QRP List <qrp-1@Lehigh.EDU>  
Subject: [147703] Re: Where to buy magnifying goggles  
Message-ID: <20030316005911.P94197-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Nick, I believe recommended the Jewlers Loupe and keeping the other eye closed. While I have used a Jewlers Loupe for close work for years, I would NOT recommend that particular method to anyone. I put that akin to never looking at a Hi-Power Laser with your "One Good Eye" At least that was the Sign on the Laser Lab Wall (FDA CDRH).

I use Safety Glasses and the Bausch & Lomb clipon Loupe. The newer ones

work well with most any eyeglasses. This one is NOT CHEAP. About \$ 50.00 as I recall. It is the 5X version, but it comes in several powers and even a dual power model. 5X & 7X or 10X

Bear in mind that the higher powers also mean closer working distance.

The 5x seems to be about 2 inch working distance. Even that is a bit close for soldering.

Another idea that occurred to me as I read Nicks note was to take one of the plastic lense Safety Goggles and reamout a hole in the position of the right eye or left if you want a lefty version, then use acrylic cement or epoxy to weld the Jewlers loupe in the hole. You can get a set of three loupes from Harbor Freight for just a few dollars.

I have the information on a good Jewelers Supply House Locally if anyone is interested in the Basch & Lomb Loupes. The 5X model is Number 814155 It appears to have come from Grobet USA.

I can't seem to find my catalog right now, or I would look up the prices.

QRPP Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net  
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.  
Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,  
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax  
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117  
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,  
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -  
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, & I.Q.S.F. Donations Accepted.

RU-QRP? Club Representative, U.S. Treasurer & Founder of I.Q.S.F.

Yes, We take "PayPal" to "George Gingell" <K3TKS@abs.net>

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

-----  
Date: Sun, 16 Mar 2003 01:46:03 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: <edl@pacbell.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147704] Re: Transformer Part Number  
Message-ID: <023e01c2eb90\$1964f560\$0401a8c0@PS>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

If it helps any, that brand name is CALECTRO - you are missing the second  
"c".

73/72, George  
Amateur Radio W5YR - the Yellow Rose of Texas  
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE  
"In the 57th year and it just keeps getting better!"  
<mailto:w5yr@att.net>

----- Original Message -----  
From: "Elliott Lawrence" <edl@pacbell.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Saturday, March 15, 2003 6:47 PM  
Subject: Re: Transformer Part Number

> Thanks for all of the suggestions.  
>  
> 73 Elliott WA6TLA  
>  
> Elliott Lawrence wrote:  
>  
> > I have an old, old audio transformer marked as Caletro D1-724. Looking  
> > to find out the specs on it, 1:1 or etc. Did a google search with no  
> > success. Does anyone have an info or suggestions?  
> >  
> > 73  
> > Elliott WA6TLA  
>

-----  
Date: Sun, 16 Mar 2003 02:33:45 -0800 (PST)  
From: Jeff Furman <jfurman@ocs.net>  
To: "Jim Kortge, K8IQY" <jokortge@prodigy.net>, qrp-1@lehigh.edu  
Subject: [147705] Re: Circuit Simulation Software (multiwinding xfmr simulation)  
Message-ID: <Pine.LNX.4.21.0303160220340.13145-100000@ocs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Jim, how about a clunky model using two or more separate transformers with the primaries in series and separate secondaries? I'm sure you can visualize more variations on this theme. Three textbooks covering multiport synthesis schemes (by Newcomb, Hazony, or Belevich) use such arrangements.

73, Jeff AD6MX

-----  
Date: Sun, 16 Mar 2003 07:37:06 -0600  
From: "Nick Kennedy" <nkennedy@tcainternet.com>  
To: <wb8zcc@one.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147706] Re: Fwd: Re: Circuit Simulation Software  
Message-ID: <006e01c2ebc1\$235b59c0\$0200000a@coxinternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

There are several paths to learning electronics & RF, and they reinforce each other. Studying theory and working with the math is one way. Building stuff, experimenting, and figuring out why it didn't do what your paper model predicted is another. It's a rare individual who can learn using one method only.

Now we have a third tool, which is simulation software. It's extremely valuable, because it lets you "build" and change circuits so quickly. Insights that come from unexpected results are similar to those you gain on the workbench. Of course, there's always the possibility of inaccuracies or bugs in the software. You have to get familiar with its capabilities, which is the same as with your physical test equipment and breadboarding techniques.

"> Once you learn how to design, then get the software."

That's like saying, once you learn to read, then you can go to school.

Is having a contrary opinion considered a "flame"? Then you may be feeling a little warm.

72--Nick, WA5BDU  
in Arkansas

----- Original Message -----

From: "Russ Hines" <wb8zcc@one.net>

> You really mean that? Then sit down with Solid State Design or the new  
> Experimental Methods in RF Design, a calculator, blank paper, and plenty  
of

> pencils and go at it. You can take these items, and read and learn  
anywhere

> you go, and you won't need a computer. .

>

> Once you learn how to design, then get the software.

>

> A note to flamers: BRING IT ON!

-----

Date: Sun, 16 Mar 2003 09:39:25 -0500

From: "Tom Pennebaker" <n4rs@netpath-rc.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [147707] Audio Tuned Cavity

Message-ID: <001501c2ebc9\$d84a5860\$59c36bd1@pavilion>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

You folks talking about headphones, are you aware of "The tuned cavity". I built one and won't turn the rig on without it. Do use phones on rare occasions...Tom N4RS

-----

Date: Sun, 16 Mar 2003 09:54:45 -0600

From: "Nick Kennedy" <nkennedy@tcainternet.com>

To: <pgardella@yahoo.com>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147708] Re: Crystal: series or parallel?  
Message-ID: <00bc01c2ebd4\$5dcceb60\$0200000a@coxinternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

My view would be that most of the oscillators we use are series mode, but I'd be interested in whether that's correct.

It doesn't matter that much how the crystal is made unless you have a need to be dead-on. If you just want to get around 7040 plus or minus a couple, you could use your parallel crystal in a series oscillator or vice-versa.

72--Nick, WA5BDU

----- Original Message -----  
From: "Patrick Gardella" <pgardella@yahoo.com>

> Been meaning to ask: which is the "standard" crystal used in most of the homebrew rigs we have  
> here, series or parallel? When a schematic says "7MHz crystal", which is it?

-----  
Date: Sun, 16 Mar 2003 11:12:15 -0500  
From: "Harold Smith" <harold.smith1@worldnet.att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147709] Re: Circuit Simulation Software  
Message-ID: <000801c2ebd6\$d0774000\$fc09550c@tinker>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gentlefolk,

On the subject of simulation software, I have a personal favorite I would like to mention. It is SIMETRIX. There is a free download available from <http://www.newburytech.co.uk/>.

There are some limitations on the freebie, but I have never, in several years of use, come up against them. I rarely try to simulate more than 3 or 4 stages at a time, though. I've simulated a number of complete radios, but only a couple of stages at a time.



Simetrix Intro (the freebie) includes a true SPICE simulator, an excellent, modern schematic capture, and an excellent analysis/waveform display. I've done 3-winding transformers in it, and it wasn't hard for me to figure out how. There is even full documentaion available for free download.

The biggest problem I found with the free version is that it comes with only a couple of models of each type of device. It's not hard at all, though, to add more, and some fairly extensive SPICE model libraries are available various places online. In fact, this could be useful information no matter which SPICE you use.

I have no connection with Simetrix or its supplier. I'm just a rabid homebrewer who has tried a bunch of simulators through the years.

For what it's worth, I've found that SPICE does a very good job of predicting the performance of solid state circuits up through at least six meters, and I consider it an important tool for any serious homebrewer.

de KE6TI, Harold

-----  
Date: Sun, 16 Mar 2003 10:12:50 -0600  
From: "Nick Kennedy" <nkennedy@tcainternet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147710] Re: Terminating an Antenna  
Message-ID: <00c301c2ebd6\$e4613620\$0200000a@coxinternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The 12 inch stinger on a dummy load sounds good, but I'm not sure what you've got in mind with the series resonant circuit. I hope you have a 50 ohm resistor in series with the L & the C.

72--Nick, WA5BDU

----- Original Message -----  
From: "Steven Weber" <kdljv@moose.ncia.net>

> >  
> Using a very short loaded wire without some kind of return path might not  
> be a very good idea.  
>  
> I would think simply tacking 12" of wire to the hot side of a 50 ohm dummy

> load would be the best way to go and be sure the transmitter is happy.  
>  
> For a somewhat larger but more effective short range antenna, probably  
> making a 50 ohm series resonant tank circuit would do the trick. Let's  
> see..on 40M you'd need aprox 1.2 uH and 450 pF. Humm, I wonder how far you  
> could send using a T50-2 core for the inductor? Maybe if you used long  
> connecting leads....  
>

-----  
Date: Sun, 16 Mar 2003 10:16:54 -0600  
From: "Don Jackson (AE5K)" <don@azark.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [147711] Re: Logging Software - and the winner is...  
Message-ID: <3E744F16.15830.8ED202@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

OK, I'm sold on at least trying it out (from the several endorsements on this list) ... downloaded it this morning, but the price must have gone up overnight since every place I see it says \$19, not \$15. OK, not that big a problem, but installed the 20+ MB call database, tried looking up my own call in it ... and what do you know, I got someone else! The someone else was the previous holder of my call, whose license expired in 1998. I have held this call since June of 2000. I'm OK in the FCC database, QRZ, and the rest I've ever tried. Be forewarned! (I have sent email to N3FJP and will report back the results.)

72,  
Don AE5K

On 15 Mar 2003 at 19:00, Trevor Jacobs wrote:

> page. The program that I picked is N3FJP's ACLog found at:  
> <http://www.n3fjp.com/>. It's very simple to use and has 4 columns that  
> (snip)  
> thought it was very well thought out. I'll be sending my order for it  
> tonight (\$15). I may end up getting his entire suite of programs

-----

Date: Sun, 16 Mar 2003 10:18:18 -0600  
From: "Harvey Mitchell" <hmitchell13@houston.rr.com>  
To: "QRP-L list" <qrp-l@Lehigh.EDU>  
Subject: [147712] NorCal Nor'Easter Kit For Sale  
Message-ID: <01b201c2ebd7\$a815eb60\$0301a8c0@houston.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For Sale Unbuilt NorCal Nor'Easter Shortwave Receiver Kit in original box. The box has been opened but all parts bags are intact. I bought it while working overseas and now that I am back I just do not have time to work on it. Asking \$50.00 shipped.

73 & thanks,

Harvey Mitchell, K5YU, HP1XBU  
ex YN6HM, AA5YU, WA5YYQ  
k5yu@arrl.net

-----  
Date: Sun, 16 Mar 2003 11:04:43 -0600  
From: KD5NWA <KD5NWA@cbayona.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147713] Re: Intentional Interference  
Message-ID: <5.2.0.9.0.20030316104126.00a9d2a8@pop.cbayona.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

That's funny, RTTY is SO MODERN...Ha Ha, they are still using BAUDOT code, that stuff is as old as the hills. Wait until someone else decides to wipe out his "old fashioned" RTTY signals and see how he feels.

Thanks for the post John, I needed a good laugh. The ignorance of that fellows history of his favorite mode is unfortunately too prevalent.

On another thought, I thought that 7040 was the RTTY calling frequency long before QRP users adopted it as their home. I have noticed many times that someone will start a SSB QSO right on 7040 , and if you listened you would have noticed that all the way up to 7057 there wasn't a thing going on at all. Makes you wonder if it's intentional or just ignorance, or their receivers are so poor they can't hear a QRP signal.

At 09:36 AM 3/15/2003, W2AGN wrote:

>Whilke I agree MOST is unintentional, a few months ago I ran into one that  
>wasn't. There was an RTTY station on 7040, which I could tell from the  
>sound was just calling CQ over and over. I fired up MTTY, and got the  
>callsign, which was a KA4. I found he had an email address, so I sent a  
>polite (really!) email, advising him that 7040 was a QRP CW calling  
>frequency, and most RTTY activity was a little higher in the band, etc.

>

>I received a response. He told me basically that he felt it was his duty in  
>life to wipe out those "old-fashioned" CW types, and made a few comments as  
>to my ancestry and current intelligence. Several times he stated he would  
>deliberately wipe out CW any time he could.

>

>I forwarded both my original and his response to Riley H.

>

>

>

>

>

>+++++ John L. Sielke

> |W||2||A||G||N| <http://www.w2agn.net> [UPDATED]

> +++++ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

>

>-----Original Message-----

>

>From: frstephenk@stfrancishigh.org

>Date: Saturday, March 15, 2003 09:30:31 AM

>To: Low Power Amateur Radio Discussion

>Subject: Re: Intentional Interference

>

>I can honestly say that I have never encountered what I would call

>"intentional" interference during Fox Hunts. I've seen LOTS of

>unintentional interference. I think this points to two issues, one good,

>another bad.

Cecil

KD5NWA

-----

Date: Sun, 16 Mar 2003 19:13:00 +0200

From: "Paul M" <mooney@cytanet.com.cy>

To: <n4rs@netpath-rc.net>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [147714] Re: Audio Tuned Cavity

Message-ID: <024601c2ebdf\$508f5400\$6a1cfea9@g6g3h9>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

>You folks talking about headphones, are you aware of "The tuned cavity". I  
>built one and won't turn the rig on without it. Do use phones on rare  
>occasions...Tom N4RS  
>  
>

Hi Tom,

Not heard of this for audio.

Done a quick web search, but found only RF tuned cavities, can you give some  
idea of where to look?

Many thanks,

Paul M.

-----  
Date: Sun, 16 Mar 2003 11:55:40 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,  
Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [147715] Teams Status with the final hunt this Thursday....  
Message-ID: <Pine.LNX.4.33.0303161144330.435-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just thought I'd list each Team's standing with the final hunt coming up  
this Thursday evening...

- (1) - the NE-TX Tornados with 171 pts.
- (2) - the Swamp Rats with 158 pts.
- (3) - the Underdogs with 150 pts.
- (4) - the Cheeseheads with 141 pts.
- (5) - the Aluminum Kings with 136 pts.
- (6) - the Cajun Thunder with 134 pts.
- (7) - the Raiders of the Lost RF with 122 pts.

- (8) - the Dust Devils with 120 pts.
- (9) - the Burbank Wrecking Crew with 118 pts.
- (10)- the K1 K9s with 101 pts.
- (11)- the p-Shooters with 71 pts.
- (12)- the Great Lakers with 68 pts.
- (13)- the Loco-Motives with 64 pts.

...as you can see, the standing order can change with the final hunt depending on Mother Propagation and other factors. Good luck all!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -  
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

-----  
Date: Sun, 16 Mar 2003 13:05:22 EST  
From: Fghester@aol.com  
To: qrp-l@lehigh.edu  
Subject: [147716] FS: MFJ 9020  
Message-ID: <1e1.49379a3.2ba616e2@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

MFJ 9020 20 meter QRP CW transceiver (5W) with detent RIT, audio filter and keyer. Works perfect, has been around but very well cared for and looks very good. \$150 plus \$10 shipping UPS ground. K1 #1301 makes 9020 excess to my needs. / Woody / WD9F respond off list to fghester@aol.com (glad to send photo if required) 73!

-----  
Date: Sun, 16 Mar 2003 12:13:49 -0600  
From: KD5NWA <KD5NWA@cbayona.com>  
To: nkennedy@tcainternet.com,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147717] Re: Circuit Simulation Software  
Message-ID: <5.2.0.9.0.20030316120943.00a83078@pop.cbayona.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I have a Professional copy of Beige Bag B2 V4.2 software and it works great, they also have a small version that is free but it is very adequate, it's a visual tool, so you draw a schematic with their program and then run simulations on it. The schematic tool is very easy to use, and if nothing else you can use it to create schematics for your projects. I will also work with Eagle Cad if you are planning to make a PC board layout, the software does both Analog and Digital design so it's very versatile. You can make a schematic of a circuit and save it as a part, that way you can make very complicated designs with the free version. Their full blown versions are also very reasonable, and they go on sale every so often, I purchase the Professional version for \$230.00, I felt it was worth it, I use it for both RF design and for Digital design. I have tested circuits for both myself and a friend who proceeded to build them and everything worked as predicted.

<<http://www.beigebag.com/>>

Another visually oriented SPICE tool is from SIMetrix, they also have a schematic drawing program that is used to run the simulations, their editor is not as intuitive as Beige Bag but it's very usable, and their simulations are very fast. Their full blown versions are outrageous in price, but most persons would do quite well with their free version.

<<http://www.newburytech.co.uk/Pages/download.html>>

Below is some links to sites with links to many SPICE resources, on both of the two products mentioned above you can add extra parts that are readably available on the Web.

<[http://rf.rfglobalnet.com/software\\_modeling/categories/16.htm](http://rf.rfglobalnet.com/software_modeling/categories/16.htm)>

As usual disclaimer I have no financial ties to either of these companies just a satisfied customer.

Enjoy.

AAAt 07:48 PM 3/15/2003, Nick Kennedy wrote:

>I think monitoring eBay or similar might yield used or closeout older  
>versions of EWB, such as 4.1 or thereabouts.

>

>I think EWB is great for ease of use and visual tools. Possibly not as good  
>as "real" SPICE programs when it gets down to the nitty-gritty of tough  
>simulations, though. (I think EWB uses its own methods rather than being  
>Spice based.)

>

>Some older DOS based Spice based programs might be good and also cheap (or  
>less) too. I'm currently fixing up a good DOS computer just for things like  
>the old IS-SPICE package I have, RUFZ, TR-Log and other great old DOS apps.

>(My Windows PC doesn't do DOS worth a hoot.) Plus I built an I/O card for an  
>ISA slot some time back that I could use to interface with some of this DDS  
>and PLL stuff everyone's playing with these days.  
>  
>Anyway, I digress. We're discussing where to buy full featured Spice  
>programs cheap, but I think many Spice promoters like Chuck and others have  
>stated that the free release or trial version stuff out there will do most  
>anything we hams would want. I just can't imagine trying to simulate a  
>whole receiver or transmitter at once. A piece at a time results in much  
>less loss of sanity.  
>  
>I have MultiSim at work. It's the current offering of the EWB folks. But  
>boy, they took a huge jump in price when they changed the product's name.  
>They had offerings of EWB for as little as \$99 a few years ago. No more.  
>  
>With MultiSim, I recently figured how to do three winding transformers and  
>other cool transformer stuff, by importing coupled inductors via a Spice  
>model. That really expanded what I could look at in terms of transformers,  
>because the built-in models are really limited. May not be possible in  
>older EWB releases though.  
>  
>72 & good simulating--  
>  
>Nick, WA5BDU  
>in Arkansas

Cecil  
KD5NWA

-----  
Date: Sun, 16 Mar 2003 18:48:51 -0000  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: <harold.smith1@worldnet.att.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147718] Re: Circuit Simulation Software  
Message-ID: <DAV41uSwCGoznxWrwjv00001741@hotmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

----- Original Message -----  
From: "Harold Smith" <harold.smith1@worldnet.att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Sunday, March 16, 2003 4:12 PM



Subject: Re: Circuit Simulation Software

> Gentlefolk,  
>  
> On the subject of simulation software, I have a personal favorite I would  
> like to mention. It is SIMETRIX. There is a free download available from  
> <http://www.newburytech.co.uk/>.  
>  
> There are some limitations on the freebie, but I have never, in several  
> years of use, come up against them. I rarely try to simulate more than 3  
or  
> 4 stages at a time, though. I've simulated a number of complete radios,  
but  
> only a couple of stages at a time.

I've got the full version - it came with the Pulsonix PCB package that I  
use. It is indeed a very good implementation, and is used by some large  
companies. The library with the full version is very comprehensive.

73, Leon

--

Leon Heller, G1HSM  
[leon\\_heller@hotmail.com](mailto:leon_heller@hotmail.com)  
[http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)

-----

Date: Sun, 16 Mar 2003 13:09:27 -0600  
From: "George, W5YR" <[w5yr@att.net](mailto:w5yr@att.net)>  
To: "Ten-Tec @ Contesting. Com" <[tentec@contesting.com](mailto:tentec@contesting.com)>,  
"Elecraft" <[elecraft@mailman.qth.net](mailto:elecraft@mailman.qth.net)>,  
Cc: "Jay Bromley" <[w5jay@alltel.net](mailto:w5jay@alltel.net)>  
Subject: [147719] Re: ArkieCon  
Message-ID: <00b301c2ebef\$91a44c10\$0401a8c0@PS>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Max Moon" <[maxmoon@umn.edu](mailto:maxmoon@umn.edu)>  
To: "George, W5YR" <[w5yr@att.net](mailto:w5yr@att.net)>  
Sent: Sunday, March 16, 2003 12:05 PM  
Subject: ArkieCon

> George--  
> Did I understand Jay B's announcement correctly--that you will be  
available  
> during ArkieCon to help test and/or align wattmeters & K2 filter  
bandwidths?

Almost but not quite, Max, so let me try to clear up any misunderstanding.

The main function of the demo/service that our NETXQRP group will be providing Saturday evening after the BBQ is the measurement of power output of transmitters and thereby the calibration of wattmeters, transmitter internal power settings, etc. We are not equipped to actually do meter calibrations, however. Our role is to show you what power you are actually delivering so that you can see how well your wattmeter or internal power reading (as with the K2) agrees with the precision power meter I will be using.

I will also also have a laptop computer running a rather sophisticated spectral analysis program that will enable us to show the IF/audio response spectrum of a receiver. The key word here is "SHOW" the spectrum. We are not equipped, nor would there likely be time, to actually do a K2 or other receiver filter alignment. Our intent is to provide a look at the actual response of the receiver so that the owner can judge whether or not any further alignment is needed.

I regret that any false hopes were raised by Jay's enthusiastic and very flattering announcement, but considering the limited time, etc. there is just no way that we can do much more than use our available instrumentation to show folks what their rigs are actually doing.

Of course, if a WM-2 is "off" and the owner wants to calibrate it there, we will work with him as best we can to check the effect of adjustments until the calibration is acceptable. The thing we have to avoid is having a situation develop where 20 guys are waiting in line to have their rigs checked and one unfortunate fellow is taking 15 minutes to adjust his WM-2!  
<:}

We will do everything we can to be of help, but actual alignment and "hands on" work on equipment will be the responsibility of the owner.

Hope you don't think that we are being too "pesky" but I don't want to raise expectations above what we can reasonably deliver.

Thanks for asking, Max . . .

73/72, George  
Amateur Radio W5YR - the Yellow Rose of Texas  
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"In the 57th year and it just keeps getting better!"  
<mailto:w5yr@att.net>

-----  
Date: Sun, 16 Mar 2003 12:26:26 -0700  
From: "Chris Trask" <chistrask@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147720] Low Noise Lossless Feedback Active Mixers  
Message-ID: <004001c2ebf1\$f0bda000\$e1883a41@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

I just added a PDF file on my webpage for the low noise version of my  
lossless feedback active mixers:

<http://www.home.earthlink.net/~chistrask/LNFBMxr1.pdf>

There are two more PDF files yet to come. One for the original Type I  
Series/Shunt Feedback Active Mixer which started all of this feedback mixer  
stuff, and the other for the Augmented Lossless Feedback Active Mixer, the  
latter of which gives an IIP3 performance of around +40dBm while still using  
just 0dBm of LO power. That leaves FET ring, Class III diode ring, and the  
poorly documented H-mode mixers (+17dBm of LO power) in the dust.

Chris

What's all this  
extinct stuff, anyhow?

High Performance Mixers and  
Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [chistrask@earthlink.net](mailto:chistrask@earthlink.net)

| | | | \ '. http://www.home.earthlink.net/~chistrask  
c\_\_; c\_\_; '-..'>.\_\_

Graphics by Loek Frederiks

----- Original Message -----

From: "Nick Kennedy" <nkennedy@tcainternet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Sunday, March 16, 2003 8:54 AM  
Subject: Re: Crystal: series or parallel?

> My view would be that most of the oscillators we use are series mode, but  
> I'd be interested in whether that's correct.  
>  
> It doesn't matter that much how the crystal is made unless you have a need  
> to be dead-on. If you just want to get around 7040 plus or minus a  
couple,  
> you could use your parallel crystal in a series oscillator or vice-versa.  
>  
> 72--Nick, WA5BDU  
>

> ----- Original Message -----

> From: "Patrick Gardella" <pgardella@yahoo.com>  
>  
> > Been meaning to ask: which is the "standard" crystal used in most of  
the  
> homebrew rigs we have  
> > here, series or parallel? When a schematic says "7MHz crystal", which  
is  
> it?  
>  
>

-----

Date: Sun, 16 Mar 2003 14:43:11 -0500  
From: Ed Tanton <n4xy@earthlink.net>  
To: nkennedy@tcainternet.com,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147721] Re: Fwd: Re: Circuit Simulation Software  
Message-ID: <5.2.0.9.2.20030316143001.048645b0@pop.earthlink.net>  
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I strongly agree with Nick. I have never been a "book-learning" person... finding that I learned much better (I thought) by DOING. That's all well and good, things DO get done, but it leaves tremendous holes in what you know, due to the specific thing-at-a-time, one-sided nature of such learning. It's only been in my... uhh-h 'senior' years that I have come to see how truly correct Nick is.

You have to learn about a thing with equal amounts of theory AND practicality in order to really understand it. I always got by through ACCEPTING that a given circuit does work, and any changes I might like could be made through cut-and-try methods. While such methods DO work, those "tremendous holes" can come back to bite you severely about the posterior.

So, personally, the past 5 years or so, I've worked on all three things: books; simulations; and practicality-and this has filled in a lot (but far from ALL!) of the blanks for me.

The bottom line: a well-rounded education in theory, simulation, and reality, will serve you best, every time.

///snip

At 08:37 AM 2003-03-16, Nick Kennedy wrote:

>There are several paths to learning electronics & RF, and they reinforce  
>each other. Studying theory and working with the math is one way. Building  
>stuff, experimenting, and figuring out why it didn't do what your paper  
>model predicted is another. It's a rare individual who can learn using one  
>method only.

>

>Now we have a third tool, which is simulation software. It's extremely  
>valuable, because it lets you "build" and change circuits so quickly.  
>Insights that come from unexpected results are similar to those you gain on  
>the workbench. Of course, there's always the possibility of inaccuracies or  
>bugs in the software. You have to get familiar with its capabilities, which  
>is the same as with your physical test equipment and breadboarding  
>techniques.

>

>"> Once you learn how to design, then get the software."

>

>That's like saying, once you learn to read, then you can go to school.

>

>Is having a contrary opinion considered a "flame"? Then you may be feeling a  
>little warm.

>

>72--Nick, WA5BDU

>in Arkansas

>///snip

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by  
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;  
SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

-----  
"Suppose you were an idiot ...  
And suppose you were a member of  
Congress... but I repeat myself."  
--Mark Twain  
-----

-----  
Date: Sun, 16 Mar 2003 13:44:21 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,  
Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [147722] Fox Hunt Teams Clean Sweeps...  
Message-ID: <Pine.LNX.4.33.0303161333100.6319-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

...as of Hunt #36, here are the Clean Sweeps...

- [1] - the NE-TX Tornados with 30.
- [2] - the Cheeseheads with 23.
- [3] - the Swamp Rats with 21.
- [4] - the Underdogs with 17.

- [5] - the Aluminum Kings with 15.
- [6] - the Cajun Thunder with 9.
- [7] - the Burbank Wrecking Crew with 8.
- [8] - the Raiders of the Lost RF with 5.
- [9] - the Dust Devils with 3.
- [10]- the Great Lakers with 2.
- [11]- the p-Shooters with 0.
- [12]- the K1 K9s with 0.
- [13]- the Loco-Motives with 0.

...so CONGRATULATIONS to the NE-TX Tornados for winning both plaques!!

...now let's see what happens in the final tally this Thursday...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -  
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

-----  
Date: Sun, 16 Mar 2003 11:52:09 -0800  
From: "wd7y@pyramid.net" <wd7y@pyramid.net>  
To: QRP-L Members Talk <qrp-l@lehigh.edu>  
Subject: [147723] Looking for  
Message-ID: <BA9A15E9.B7DE%wd7y@pyramid.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

I need to find a place that sells plugs that  
are made for 300 OHM TV line.  
So that I can plug various lengths of the 300 OHM  
lines together when were out in the field.  
Radio Shake use to carry them but now they are discontinued.  
If any of you may have an idea where I may find them  
please advise.....

Ed WD7Y

-----  
Date: Sun, 16 Mar 2003 13:51:51 -0600 (CST)

From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: Low Power Group <qrp-l@LeHigh.EDU>,  
QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,  
Cc: Mary Cherry <mary@na6e.com>  
Subject: [147724] fox hunt winners...  
Message-ID: <Pine.LNX.4.33.0303161344300.6319-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Ken, Mary and everyone...I am pleased to announce that the NE-TX Tornados have won the Team plaque and the Clean Sweep plaque!!...

...the members of the NE-TX Tornados are:

Chuck - W5USJ  
Bill - K5JHP  
Don - K5DW  
Doc - W5TB  
George- W5YR

...Ken will take care of the engraving...and Mary are you able to make up the certificates for the winning Team?...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -  
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

-----  
Date: Sun, 16 Mar 2003 16:01:37 -0500  
From: "Brian Murrey" <brian@iquest.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>, "Flying Pigs" <fpqrp-l@fpqrp.com>  
Subject: [147725] Logging software  
Message-ID: <000d01c2ebff\$3cabb8f0\$d8652bd1@bmurrey2K>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Since we've had a few logging software requests in the last month or so, I thought I'd cross post this to the list. I just got this from N3FJP.



Reply to him, his email address is at the bottom.

=====

Hi All,

I have several software announcements:

N3FJP's Michigan State QSO Party Log is Now Available!

N3FJP's Wisconsin State QSO Party Log is Now Available!

N3FJP's Kid's Day Log is now available!

The Kid's Day Log is completely free and fully functional. Please use it to encourage the young people in your family and neighborhood to get excited about the great hobby of Amateur Radio!

Features:

These programs include all the features you have come to expect including:

Easy and intuitive to use, checks for duplicates (duplicate entries are allowed with the Kid's Day Log), lists all contacts, provides a country lookup function, provides many current statistics, computer generated CW (via RTS or DTR comm lines) and Voice (via sound card), interface with most Elecraft, Icom, Kenwood, Ten-Tec and Yaesu rigs, provides DX spotting via Telnet, your TNC, or AGW Packet Engine and exports in ADIF format.

Registration:

As always, these additional programs are free to registered users of my software package (the Kid's Day Log is free to everyone). If you have previously registered either my \$39 software package or \$49 software package and CD and would like to use these programs, please send me an e-mail.

If you have not yet upgraded to my software package and would like to, I'll be glad to apply your previous registration(s) as a credit towards a package. Please send me an e-mail if you are interested in this option.

Field Day Log 2.1 and Field Day Network Log 1.7 are now available!

These versions have been updated to include section maps. The map area of each section will change color after the section is worked. I am planning to add maps to ACLog and other contesting programs in the coming months as well. These upgrades are free to registered users.

### N3FJP's Programming Future

As most of you know, I have written programs for all the major contests and am now beginning work on the state QSO parties. It seems that the more programs I write, the more requests I receive for other contests and events, and that is wonderful! I am very thankful that my software is so well received, and I hope to accommodate as many future requests as I can.

If your organization has an event that you would like supported with a computerized log, please let me know. I am thoroughly enjoying every minute of programming for you, and I'll be happy to add your request to my project list.

What some of you may not know is that I also have a full time job that is not related to programming. Keeping up with the responsibilities of my full time job, with my programming limited to weekends and vacation time, is obviously a barrier to the development and enhancement process.

What I would love is to devote my full time and energies to programming. Your support for my logging software has been wonderful, but with two boys going to college in the next few years, I'm not yet at a point that I can take that step.

To bridge the gap, I am considering developing additional product lines and/or doing freelance programming. I would very much appreciate any and all ideas and suggestions that you may have along these lines. I would also be very interested to know if you (or anyone you know) have any programming needs for your business or organization that I may be able to help with. Your feedback will be a great help in deciding the future of my programming direction.

As always, thanks for all your support, kind thoughts and spreading the word about my software. I really appreciate it.

73,

Scott, N3FJP  
snkdavis@aol.com  
www.n3fjp.com

Serving the Amateur Radio Community with general logging and contesting software since 1997.

-----  
Date: Sun, 16 Mar 2003 16:07:31 -0500  
From: "Tom Pennebaker" <n4rs@netpath-rc.net>  
To: "Paul M" <mooney@cytanet.com.cy>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147726] Re: Audio Tuned Cavity  
Message-ID: <00b001c2ec00\$0fcacfa0\$59c36bd1@pavilion>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Not heard of this for audio.

Done a quick web search, but found only RF tuned cavities, can you give some idea of where to look?

Many thanks,

Paul M.

I'll bite. Tell us more about the "tuned cavity". I'm interested.

--  
Best regards,  
George, WA4TNU

I've done it now! Going to have to do some serious digging in my library. May take some time. If I can't find it I'll give my dissertation of how I made it...maybe take a pix.....Tom N4RS

-----  
Date: Sun, 16 Mar 2003 16:22:40 -0600  
From: "Gene Sailsbury" <gsailsbury@mobil1.net>  
To: "QRP-L" <qrp-1@Lehigh.EDU>  
Subject: [147727] Ungar heating element  
Message-ID: <015601c2ec0a\$8f056a00\$9cc03fd8@8tracker>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I need a heat element for a UNGAR Princess soldering iron. It is 15 watts #6915. New or used. Thanks.  
Gene NOMQ

---

Outgoing mail is certified Virus Free.  
Checked by AVG anti-virus system (<http://www.grisoft.com>).  
Version: 6.0.461 / Virus Database: 260 - Release Date: 3/10/2003

-----  
Date: Sun, 16 Mar 2003 16:29:31 -0600  
From: "Michael Melland" <w9wis@charter.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,  
<fpqrp-l@fpqrp.com>, <njqrp@njqrp.org>  
Subject: [147728] Looking for Johnson Matchbox  
Message-ID: <000a01c2ec0b\$83d58880\$3f20be42@computer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Anyone got a matchbox they'd like to trade ? I need a balanced line tuner and I have a great 40/20 meter Elecraft K1 with stand I'd consider trading for a "very nice" matchbox.

Mike

--  
Michael Melland, W9WIS  
Winneconne, Wisconsin USA EN54pc  
qrp-l #1656 - qrp-parci # 9875 - iparc #252  
ars #1075 - <http://webpages.charter.net/w9wis/>

-----  
Date: Sun, 16 Mar 2003 15:30:27 -0800 (PST)  
From: Steve Holloway <wsholloway1@yahoo.com>  
To: QRP-l@Lehigh.edu  
Subject: [147729] FS: MFJ 9040  
Message-ID: <20030316233027.97678.qmail@web12804.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

MFJ 9040 40 meter QRP CW transceiver (5W) with

detent RIT. Works perfect, I've had it a while but  
is still in great shape,cosmetically an 8+.  
\$100 plus \$10 shipping. Just have too many 40 meter  
rigs. Please reply off list  
72,  
Steve KE4JZG

-----  
Do you Yahoo!?  
Yahoo! Web Hosting - establish your business online  
<http://webhosting.yahoo.com>

-----  
End of QRP-L Digest 2861  
\*\*\*\*\*  
-----